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UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: VITERI, Fermin
Serial No.: 10/716,004
Filed: 11/17/2003
For: Low Pollution Power Generation
System with Ion Transfer Membrane
Air Separation

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

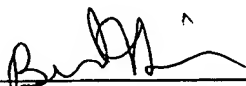
In accordance with the requirements of 37 C.F.R. §§1.97 and 1.98, the undersigned requests that the information contained herein be considered by the Office.

REMARKS

The information to be considered includes: a form PTO-1449 listing references and a copy of the listed references, in accordance with 37 C.F.R. §1.98. The information contained herein does not constitute any admission that any of the references included herein qualify as prior art, or any admission of any dates of conception, dates of reduction to practice, or presence or absence of diligence in reducing the invention to practice. Applicant reserves the right to challenge the prior art status of these references.

This document is filed before a first Office action on the merits of this case, and hence should be considered as timely filed. Should the examiner have any questions upon his review of the above information, the undersigned requests that the examiner contact the undersigned by phone.

Respectfully Submitted:



Bradley P. Heisler
Applicant's Attorney
Telephone (916) 781-6634
Registration No.: 35,892

7-29-04
Date



Please type a plus sign (+) inside this box → ☐

PTO/SB/21 (6-98)
Approved for use through 09/30/2000. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/716,004
	Filing Date	11/17/2003
	First Named Inventor	VITERI, Fermin
	Group Art Unit	3746
	Examiner Name	
Total Number of Pages in This Submission		Attorney Docket Number 0145.001

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition Routing Slip (PTO/SB/69) and Accompanying Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Refund	<input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below)
<input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	return postcard	
Remarks		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Bradley P. Heisler
Signature	
Date	7-29-04

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date 7/29/2004	
Typed or printed name	Carmen McCarty
Signature	
Date	July 29, 2004

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Complete if Known		
			Application Number	107716,004	
			Filing Date	11/17/2003	
			First Named Inventor	VITERI, Fernin	
			Group Art Unit	3746	
			Examiner Name		
Sheet	1	of	16	Attorney Docket Number	,0145.001

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		864,017		Miller	08-20-1907	
		886,274		Tate	04-28-1908	
		1,013,907		Taylor	01-09-1912	
		1,227,275		Kraus	05-22-1917	
		1,372,121		Davis	03-22-1921	
		1,820,755		McMullen	08-25-1931	
		1,828,784		Perrin	10-27-1931	
		2,004,317		Forster	06-11-1935	
		2,033,010		Russell	03-03-1936	
		2,078,956		Lysholm	05-04-1937	
		2,168,313		Bichowsky	08-08-1939	
		2,218,281		Ridder	10-15-1940	
		2,359,108		Hoskins	09-26-1944	
		2,368,827		Hanson	02-06-1945	
		2,374,710		Smith	05-01-1945	
		2,417,835		Moore	03-25-1947	
		2,428,136		Barr	09-30-1947	
		2,469,238		Newton	05-03-1949	
		2,476,031		Farkas	07-12-1949	
		2,478,682		Blackwood	08-09-1949	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		GB	6394		Smith	05-28-1898		
		FR	350,612		Braun	01-07-1905		
		GB	140,516		Torazzi	03-23-1920		
		GB	271,706		Schmid	05-26-1927		
		DE	1,301,821		Fabian	08-28-1969		
		DE	2,933,932		Sternfeld	12-09-1982		
		DE	3,122,338		Rohatscheck	05-19-1983		
		DE	2,111,602		Stahl	07-06-1983		
		EP	0,197,555		Ramsaier	04-09-1986		
		DE	3,512,947		Ramsaier	10-16-1986		

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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	First Named Inventor	VITERI, Fermin			
	Group Art Unit	3746			
	Examiner Name				
Sheet	2	of	16	Attorney Docket Number	,0145.001

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		Number	Kind Code ² (if known)			
		2,487,435		Goddard	11-08-1949	
		2,523,656		Goddard	09-26-1950	
		2,547,093		Ray	04-03-1951	
		2,563,028		Goddard	08-07-1951	
		2,568,787		Bosch	09-25-1951	
		2,582,938		Eastman	01-15-1952	
		2,605,610		Hermitte	08-05-1952	
		2,621,475		Loy	12-16-1952	
		2,636,345		Zoller	04-28-1953	
		2,654,217		Rettaliata	10-06-1953	
		2,656,677		Peterson	10-27-1953	
		2,662,373		Sherry	12-15-1953	
		2,678,531		Miller	05-18-1954	
		2,678,532		Miller	05-18-1954	
		2,697,482		Blizard	12-21-1954	
		2,717,491		Barr	09-13-1955	
		2,722,100		Goddard	11-01-1955	
		2,763,987		Kretschmer	09-25-1956	
		2,770,097		Walker	11-13-1956	
		2,832,194		Kuhner	04-29-1958	

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		EP	0413199		Siemens	02-20-1991		
		JP	WO 91/02886		Muraki	03-07-1991		
		EP	0546501		Drneovich	06-16-1993		
		US	WO 94/10427		Ginter	05-11-1994		
		EP	06318464		Hiroshi	11-15-1994		
		EP	0634562		Scharpf	01-18-1995		
		US	WO 96/07024		Beichel	03-07-1996		
		US	WO 97/44574		Collin	11-27-1997		
		US	WO 99/22127		Beichel	05-06-1999		
		US	WO 99/63210		Ursin	12-09-1999		

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			Application Number	10/716,004	
			Filing Date	11/17/2003	
			First Named Inventor	VITERI, Fermin	
			Group Art Unit	3746	
			Examiner Name		
Sheet	3	of	16	Attorney Docket Number	,0145.001

U.S. PATENT DOCUMENTS						
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		Number	Kind Code ² (if known)			
		2,869,324		Foote	01-20-1959	
		2,884,912		Lewis	05-05-1959	
		2,916,877		Walter	12-15-1959	
		2,986,882		Pavlecka	06-06-1961	
		3,038,308		Fuller	06-12-1962	
		3,054,257		Schelp	09-18-1962	
		3,101,592		Robertson	08-27-1963	
		3,134,228		Wolansky	05-26-1964	
		3,183,864		Stengel	05-18-1965	
		3,238,719		Harslem	03-08-1966	
		3,298,176		Forsyth	01-17-1967	
		3,302,596		Zinn	02-07-1967	
		3,315,467		DeWitt	04-25-1967	
		3,331,671		Goodwin	07-18-1967	
		3,335,565		Aguet	08-15-1967	
		3,359,723		Bohensky	12-26-1967	
		3,385,381		Calaman	05-28-1968	
		3,423,028		Stupakis	01-21-1969	
		3,459,953		Hughes	08-05-1969	
		3,559,402		Stone	02-02-1971	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
		EP	2001015134		Yasuaki	01-19-2001		
		EP	2001085036		Tadashi	03-30-2001		
		US	WO 01/75277		Demetri	10-11-2001		

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Sheet	4	of	16		

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		Number	Kind Code ² (if known)			
		3,574,507		Kydd	04-13-1971	
		3,608,529		Smith	09-28-1971	
		3,649,469		MacBeth	03-14-1972	
		3,657,879		Ewbank	04-25-1972	
		3,677,239		Elkins	07-18-1972	
		3,693,347		Kydd	09-26-1972	
		3,702,110		Hoffman	11-07-1972	
		3,703,807		Rice	11-28-1972	
		3,731,485		Rudolph	05-08-1973	
		3,736,745		Karig	06-05-1973	
		3,738,792		Feng	06-12-1973	
		3,747,336		Dibelius	07-24-1973	
		3,751,906		Leas	08-14-1973	
		3,722,881		Lange	11-20-1973	
		3,779,212		Wagner	12-18-1973	
		3,792,690		Cooper	02-19-1974	
		3,804,579		Wilhelm	04-16-1974	
		3,807,373		Chen	04-30-1974	
		3,826,080		DeCorso	07-30-1974	
		3,831,373		Flynt	08-27-1974	

[illegible]

Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO <div style="text-align: center; font-weight: bold; font-size: 1.2em;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</div> <div style="text-align: center; font-style: italic;">(use as many sheets as necessary)</div>				<div style="text-align: center; font-weight: bold;">Complete if Known</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application Number</td> <td>10/716,004</td> </tr> <tr> <td>Filing Date</td> <td>11/17/2003</td> </tr> <tr> <td>First Named Inventor</td> <td>VITERI, Fermin</td> </tr> <tr> <td>Group Art Unit</td> <td>3746</td> </tr> <tr> <td>Examiner Name</td> <td></td> </tr> <tr> <td>Attorney Docket Number</td> <td>,0145.001</td> </tr> </table>		Application Number	10/716,004	Filing Date	11/17/2003	First Named Inventor	VITERI, Fermin	Group Art Unit	3746	Examiner Name		Attorney Docket Number	,0145.001
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Sheet	5	of	16														

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		Number	Kind Code ² (if known)			
		3,850,569		Alquist	11-26-1974	
		3,854,283		Stirling	12-17-1974	
		3,862,624		Underwood	01-28-1975	
		3,862,819		Wentworth	01-28-1975	
		3,928,961		Pfefferle	12-30-1975	
		3,972,180		Van Gelder	08-03-1976	
		3,978,661		Cheng	09-07-1976	
		3,980,064		Ariga	09-14-1976	
		3,982,878		Yamane	09-28-1976	
		4,063,414		Sata	12-20-1977	
		4,118,925		Sperry	10-10-1978	
		4,133,171		Earnest	01-09-1979	
		4,148,185		Somers	04-10-1979	
		4,193,259		Muenger	03-18-1980	
		4,194,890		McCombs	03-25-1980	
		4,199,327		Hempill	04-22-1980	
		4,224,299		Barber	09-23-1980	
		4,224,991		Sowa	09-30-1980	
		4,249,371		Romeyke	02-10-1981	
		4,271,664		Earnest	06-09-1981	

[illegible]

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		Number	Kind Code ² (if known)			
		4,674,463		Duckworth	06-23-1987	
		4,680,927		Cheng	07-21-1987	
		4,716,737		Mandrin	01-05-1988	
		4,731,989		Furuya	03-22-1988	
		4,765,143		Crawford	08-23-1988	
		4,825,650		Hosford	05-02-1989	
		4,841,721		Patton	06-27-1989	
		4,845,940		Beer	07-11-1989	
		4,884,529		Byrnes	12-05-1989	
		4,899,537		Cheng	02-13-1990	
		4,910,008		Prudhon	03-20-1990	
		4,916,904		Ramsaier	04-17-1990	
		4,928,478		Maslak	05-29-1990	
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		4,948,055		Belcher	08-14-1990	
		4,982,568		Kalina	01-08-1991	
		4,987,735		DeLong	01-29-1991	
		5,050,375		Dickinson	09-24-1991	
		5,055,030		Schirmer	10-08-1991	
		5,069,031		Shekleton	12-03-1991	

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				Application Number	10/716,004
				Filing Date	11/17/2003
				First Named Inventor	VITERI, Fermin
				Group Art Unit	3746
				Examiner Name	
Sheet	8	of	16	Attorney Docket Number	,0145.001

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No.†	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code‡ (if known)			
		5,088,450		Sternfeld	02-18-1992	
		5,103,630		Correa	04-14-1992	
		5,131,225		Roettger	07-21-1992	
		5,175,994		Fox	01-05-1993	
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		5,247,791		Pak	09-28-1993	
		5,265,410		Hisatome	11-30-1993	
		5,285,628		Korenberg	02-15-1994	
		5,304,356		Iijima	04-19-1994	
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		5,413,879		Domeracki	05-09-1995	
		5,417,053		Uji	05-23-1995	
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		5,479,781		Fric	01-02-1996	
		5,482,791		Shingai	01-09-1996	

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		Number	Kind Code ² (if known)			
		5,490,377		Janes	02-13-1996	
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		5,511,971		Benz	04-30-1996	
		5,535,584		Janes	07-16-1996	
		5,541,014		Micheli	07-30-1996	
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		5,572,861		Shao	11-12-1996	
		5,581,997		Janes	12-10-1996	
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		5,628,184		Santos	05-13-1997	
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		5,687,560		Janes	11-18-1997	
		5,709,077		Beichel	01-20-1998	

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		5,724,805		Golomb	03-10-1998	
		5,761,896		Dowdy	06-09-1998	
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		5,852,925		Prasad	12-29-1998	
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		5,997,595		Yokohama	12-07-1999	
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		6,196,000		Fassbender	03-06-2001	
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Sheet 11 of 16

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Application Number	10/716,004
Filing Date	11/17/2003
First Named Inventor	VITERI, Fermin
Group Art Unit	3746
Examiner Name	
Attorney Docket Number	0145 001

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			Application Number	107716,004	
			Filing Date	11/17/2003	
			First Named Inventor	VITERI, Fermin	
			Group Art Unit	3746	
			Examiner Name		
Sheet	12	of	16	Attorney Docket Number	,0145.001

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		REINKENHOF, J. et al.; Steam Generation with Modified H2/O2 - Rocket Engines; unknown date	
		STERNFELD, H.; A Hydrogen/Oxygen Steam Generator for the Peak-Load Management of Steam Power Plants; unknown date	
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		YANTOVSKII, E. I.; Computer Exergonomics of Power Plants without Exhaust Gases; Energy Convers. Mgmt.; 1992; pp. 405-412; Vol. 33, No. 5-8; Pergamon Press Ltd.; Great Britain	
		BOLLAND, O. et al.; New Concepts for Natural Gas Fired Power Plants which Simplify the Recovery of Carbon Dioxide; Energy Convers. Mgmt.; 1992; pp. 467-475; Vol. 33, No. 5-8; Pergamon Press Ltd.; Great Britain	

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First Named Inventor	VITERI, Fermin				
Group Art Unit	3746				
Examiner Name					
Attorney Docket Number	,0145.001				
Sheet	13	of	16		

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
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		HENDRIKS, C.A. et al.; Carbon Dioxide Recovery Using a Dual Gas Turbine IGCC Plant; Energy Convers. Mgmt.; 1992; pp. 387-396; Vol. 33, No. 5-8; Pergamon Press Ltd.; Great Britain	
		MERCEA, P. V. et al.; Oxygen Separation from Air by a Combined Pressure Swing Adsorption and Continuous Membrane Column Process; Journal of Membrane Science; 1994; pp. 131-144; Cincinnati, Ohio	
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		ALKAM, M. K. et al.; Methanol and Hydrogen Oxidation Kinetics in Water at Supercritical States; 1995; The University of Iowa; Iowa City, Iowa	
		RICE, I. G.; Steam-Injected Gas Turbine Analysis: Steam Rates; Journal of Engineering for Gas Turbines and Power; April 1995; pp. 347-353; Vol. 117	
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		KOLP, D. A. et al.; Advantages of Air Conditioning and Supercharging an LM6000 Gas Turbine Inlet; Journal of Engineering for Gas Turbines and Power; July 1995; Vol. 117	
		EPA Proposes Across-the-Board Phase II NOx Limitations; Air Pollution Regulatory Analysis Service; January 19, 1996; Article No. 96-2	

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	First Named Inventor	VITERI, Fermin			
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Sheet	14	of	16	Attorney Docket Number	,0145.001

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		AGAZZANI, A. et al.; An Assessment of the Performance of Closed Cycles with and without Heat Rejection at Cryogenic Temperatures; International Gas Turbine and Aeroengine Congress & Exhibition; June 10-13, 1996; Birmingham, UK	
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			Filing Date	11/17/2003	
			First Named Inventor	VITERI, Fermin	
			Group Art Unit	3746	
			Examiner Name		
Sheet	15	of	16	Attorney Docket Number	,0145.001

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		Norwegian Idea for CO2-Free Power Generation; Greenhouse Issues; March 1999	
		AKER MARITIME; HiOx Gas Fired Power Plants without Atmospheric Emissions; June 1999	
		TURKENBURG, W. C. et al.; Fossil Fuels in a Sustainable Energy Supply: The Significance of CO2 Removal; A Memorandum at the Request of the Ministry of Economic Affairs the Hague; June 1999; pp. 1-26; Utrecht	
		BILGER, R. W.; Zero Release Combustion Technologies and the Oxygen Economy; Fifth Int'l Conference on Technologies and Combustion for a Clean Environment; July 1999; Lisbon, Portugal	
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		HENDRIKS, C.A. et al.; Costs of Carbon Dioxide Removal by Underground Storage; 5th International Conference on Greenhouse Gas Control Technologies (GHGT-5); August 2000; Cairns, Australia	

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